

What is claimed is:

1. A method for monitoring an injection device (5) for an internal combustion engine,
wherein,
by evaluating signals of a misfire detection, at least two malfunctions of an injection device are detected, and a response is implemented depending on the malfunction that was detected.
2. The method as recited in Claim 1,
wherein,
by evaluating a fuel pressure, a check is carried out to determine whether there is a malfunction of the injection device.
3. The method as recited in Claim 1 or 2,
wherein,
when a misfiring cylinder is detected and the fuel pressure has dropped below a threshold value, a mechanical malfunction of the injection device is detected.
4. The method as recited in at least one of the preceding Claims,
wherein,
if cylinders (110) assigned to an output stage of the injection device (5) misfire, and the fuel pressure drops below a threshold value (SW), an electrical malfunction of the injection device (5) is detected.
5. The method as recited in Claim 3,
wherein,
when an electrical fault is detected, an output stage (45) that controls the fuel injectors (40) is also checked for electrical faults.
6. The method as recited in at least one of the preceding Claims,
wherein,
depending on the malfunction, the internal combustion engine is operated in a limp-home mode in response to the fault.

7. A monitoring device of an injection device (5) of an internal combustion engine, with which a detection means detects signals of a misfire detection, wherein

the monitoring device detects at least two malfunctions of the injection device by evaluating the signals of the misfire detection, and the monitoring device implements a response depending to the malfunction that was detected.

8. A computer program product with program code that is stored on a machine-readable data storage device for carrying out the method as recited in one of the Claims 1 through 6 when the program is run on a computer or in an electronic control unit.